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### 1 [Semantics and evaluation techniques for window aggregates in data streams](#)

[Jin Li, David Maier, Kristin Tufte, Vassilis Papadimos, Peter A. Tucker](#)

June **SIGMOD '05**: Proceedings of the 2005 ACM SIGMOD international 2005 conference on Management of data

**Publisher:** ACM
 Full text available: [Pdf](#) (564.92 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)
**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 115, Citation Count: 7

A windowed query operator breaks a data stream into possibly overlapping subsets of data and computes a result over each. Many stream systems can evaluate window aggregate queries. However, current stream systems suffer from a lack of an explicit definition ...

### 2 [A remotely accessible network processor-based router for network experimentation](#)

[Charlie Wiseman, Jonathan Turner, Michela Becchi, Patrick Crowley, John DeHart, Mart Hailtiema, Shakir James, Fred Kuhns, Jing Lu, Jyoti Parwatikar, Ritun Patney, Michael Wilson, Ken Wong, David Zar](#)

November **ANCS '08**: Proceedings of the 4th ACM/IEEE Symposium on 2008 Architectures for Networking and Communications Systems

**Publisher:** ACM
 Full text available: [Pdf](#) (628.70 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 32, Citation Count: 0

Over the last decade, programmable Network Processors (NPs) have become widely used in Internet routers and other network components. NPs enable rapid development of complex packet processing functions as well as rapid response to changing requirements. ...

**Keywords:** network processors, network testbeds, programmable routers

3 [Evaluating test adequacy coverage of high level petri nets using spin](#)



[Junhua Ding](#), [Gonzalo Argote-Garcia](#), [Peter J. Clarke](#), [Xudong He](#)

May 2008 **AST '08: Proceedings of the 3rd international workshop on Automation of software test**

**Publisher:** ACM

Full text available: Pdf (514.53 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 57, Citation Count: 0

How to ensure the quality of complex software systems is a grand challenge. Formal methods and software testing techniques are two major complementary approaches for software quality assurance. In this paper, we present a unique approach that uses the ...

**Keywords:** high level petri nets, simulation, software testing, spin

4 [TinyDB: an acquisitional query processing system for sensor networks](#)



[Samuel R. Madden](#), [Michael J. Franklin](#), [Joseph M. Hellerstein](#), [Wei Hong](#)

March 2005 **Transactions on Database Systems (TODS)**, Volume 30 Issue 1

**Publisher:** ACM

Full text available: Pdf (1.67 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 73, Downloads (12 Months): 5298, Citation Count: 101

We discuss the design of an acquisitional query processor for data collection in sensor networks. Acquisitional issues are those that pertain to where, when, and how often data is physically acquired (*sampled*) and delivered to query processing ...

**Keywords:** Query processing, data acquisition, sensor networks

5 [Scalable parallel simulations of wireless networks with WiPPET: modeling of radio propagation, mobility and protocols](#)

September 2000 **Mobile Networks and Applications**, Volume 5 Issue 3

**Publisher:** Kluwer Academic Publishers

Full text available: Pdf (175.62 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 15, Citation Count: 6

We review the design, selected applications and performance of WiPPET &par; Wireless Propagation and Protocol Evaluation Testbed&rpar;, a general parallel simulation testbed for various types of wireless networks. WiPPET has been written in TeD&sol;C&plus;&plus;, ...

6 EMWIN: emulating a mobile wireless network using a wired network



Pei Zheng, Lionel M. Ni

September **WOW MOM '02**: Proceedings of the 5th ACM international workshop on  
2002 Wireless mobile multimedia

**Publisher:** ACM

Full text available: Pdf (620.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 43, Citation Count: 8

Test and performance evaluation of protocols and algorithms in mobile wireless networks is known to be challenging. Due to the highly varying characteristics of mobile wireless networks, one cannot merely rely on either network simulation or a testbed. ...

**Keywords:** mobile wireless network, mobility, network emulation, performance evaluation

7 On the critical phase transition time of wireless multi-hop networks with random failures



Fei Xing, Wenye Wang

September **MobiCom '08**: Proceedings of the 14th ACM international conference  
2008 on Mobile computing and networking

**Publisher:** ACM

Full text available: Pdf (738.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 56, Downloads (12 Months): 233, Citation Count: 0

In this paper, we study the critical phase transition time of large-scale wireless multi-hop networks when the network topology experiences a partition due to increasing random node failures. We first define two new metrics, namely the *last connection* ...

**Keywords:** *continuum percolation, network devolution, phase transition time, random failures, wireless multihop networks*

8 Coyote: a system for constructing fine-grain configurable communication services



Nina T. Bhatti, Matti A. Hiltunen, Richard D. Schlichting, Wanda Chiu

November **Transactions on Computer Systems (TOCS)**, Volume 16 Issue 4  
1998

**Publisher:** ACM

Full text available: Pdf (290.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
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**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 55, Citation Count: 23

Communication-oriented abstractions such as atomic multicast, group RPC, and protocols for location-independent mobile computing can simplify the development of complex applications built on distributed systems. This article describes Coyote, a system ...


**Keywords:** x-kernal, configurable sevicees, customization, event handlers, event-driven execution, membership, microprotocols, mobile computing, modularity, multicast, protocols, remote procedure call

9 [Giggle: a framework for constructing scalable replica location services](#)

[Ann Chervenak](#), [Ewa Deelman](#), [Ian Foster](#), [Leanne Guy](#), [Wolfgang Hoschek](#), [Adriana Iamnitchi](#), [Carl Kesselman](#), [Peter Kunszt](#), [Matei Ripeanu](#), [Bob Schwartzkopf](#), [Heinz Stockinger](#), [Kurt Stockinger](#), [Brian Tierney](#)

November 2002 **Supercomputing '02:** Proceedings of the 2002 ACM/IEEE conference on Supercomputing

**Publisher:** IEEE Computer Society Press

Full text available:  Pdf (277.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 69, Citation Count: 37


In wide area computing systems, it is often desirable to create remote read-only copies (replicas) of files. Replication can be used to reduce access latency, improve data locality, and/or increase robustness, scalability and performance for distributed ...

10 [Early Experience with Aerospace CFD at JAXA on the Fujitsu PRIMEPOWER HPC2500](#)

[Yuichi Matsuo](#), [Masako Tsuchiya](#), [Masaki Aoki](#), [Naoki Sueyasu](#), [Tomohide Inari](#), [Katsumi Yazawa](#)

November 2004 **SC '04:** Proceedings of the 2004 ACM/IEEE conference on Supercomputing

**Publisher:** IEEE Computer Society

Full text available:  Pdf (5.19 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 39, Citation Count: 0

Japan Aerospace Exploration Agency has introduced a new terascale SMP-cluster-type parallel supercomputer system as Numerical Simulator III (NS-III) for aerospace science and engineering research purposes. The system has been in full operation since ...

11 [A local search mechanism for peer-to-peer networks](#)



Vana Kalogeraki, Dimitrios Gunopoulos, D. Zeinalipour-Yazti

November 2002 **CI KM '02: Proceedings of the eleventh international conference on Information and knowledge management**

**Publisher:** ACM

Full text available: Pdf (238.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 147, Citation Count: 34

One important problem in peer-to-peer (P2P) networks is searching and retrieving the correct information. However, existing searching mechanisms in pure peer-to-peer networks are inefficient due to the decentralized nature of such networks. We propose ...

**Keywords:** distributed information retrieval, peer-to-peer networks

12 [Exploiting  \$k\$ -constraints to reduce memory overhead in continuous queries over data streams](#)



Shivnath Babu, Utkarsh Srivastava, Jennifer Widom

September 2004 **Transactions on Database Systems (TODS)**, Volume 29 Issue 3

**Publisher:** ACM

Full text available: Pdf (423.78 KB)

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 93, Citation Count: 7

Continuous queries often require significant run-time state over arbitrary data streams. However, streams may exhibit certain data or arrival patterns, or *constraints*, that can be detected and exploited to reduce state considerably without compromising ...

**Keywords:** Continuous queries, constraints, data streams

13 [Efficient algorithms for evaluating xpath over streams](#)



Gang Gou, Rada Chirkova

June 2007 **SIGMOD '07: Proceedings of the 2007 ACM SIGMOD international conference on Management of data**

**Publisher:** ACM

Full text available: Pdf (878.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 32, Downloads (12 Months): 281, Citation Count: 4

In this paper we address the problem of evaluating XPath queries over streaming XML data. We consider a practical XPath fragment called Univariate XPath, which includes the commonly used '/' and '//' axes and allows \*-node tests and arbitrarily nested ...

**Keywords:** XML, XPath, query processing, streams

**14** [Maintaining a quality of service routing tree for mobile ad hoc networks](#)



[Khaled Alzoubi](#), [Moussa Ayyash](#)

July **IWCMC '06**: Proceedings of the 2006 international conference on Wireless communications and mobile computing

**Publisher:** ACM

Full text available: Pdf (269.45 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 64, Citation Count: 0

We define the Quality of Service Routing Tree (QoSRT) for the weighted graph  $G(V, E)$ , as a subgraph  $G'(V, E')$  such that  $G'$  is a tree, and the set of intermediate edges of the path between any pair of nodes  $u$  and  $v$  is a subset of  $E'$ . The weight of an edge ...

**Keywords:** mobile ad hoc networks, quality of service, routing tree, virtual backbone

**15** [An Agenda Based Mobility Model](#)

[Qunwei Zheng](#), [Xiaoyan Hong](#), [Jun Liu](#)

April 2006 **ANSS '06**: Proceedings of the 39th annual Symposium on Simulation

**Publisher:** IEEE Computer Society

Full text available: Pdf (398.19 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 55, Citation Count: 2

Mobility modeling is important in wireless and mobile networking research due to the fact that few real large scale networks is available for performance evaluation. While existing models only take the geographical movements into consideration, we emphasize ...

**16** [Estimating compilation time of a query optimizer](#)



[Ihab F. Ilyas](#), [Jun Rao](#), [Guy Lohman](#), [Dengfeng Gao](#), [Eileen Lin](#)

June **SIGMOD '03**: Proceedings of the 2003 ACM SIGMOD international conference on Management of data

**Publisher:** ACM

Full text available: Pdf (292.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 67, Citation Count: 4


A query optimizer compares alternative plans in its search space to find the best plan for a given query. Depending on the search space and the enumeration algorithm, optimizers vary in their compilation time and the quality of the execution plan they ...

17 [An empirical performance evaluation of scalable scientific applications](#)

[Jeffrey S. Vetter, Andy Yoo](#)

November 2002 **Supercomputing '02**: Proceedings of the 2002 ACM/IEEE conference on Supercomputing

**Publisher:** IEEE Computer Society Press

Full text available:  Pdf (1.06 MB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 31, Citation Count: 11


18 [Application-level isolation and recovery with solitude](#)



[Shvetank Jain, Fareha Shafique, Vladan Dieric, Ashvin Goel](#)

April 2008 **Eurosys '08**: Proceedings of the 3rd ACM SIGOPS/EuroSys European Conference on Computer Systems 2008

**Publisher:** ACM

Full text available:  Pdf (218.41 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 259, Citation Count: 1

When computer systems are compromised by an attack, it is difficult to determine the precise extent of the damage caused by the attack because the state changes made by an attacker and those made by regular users can be closely intertwined. This problem ...

**Keywords:** access control, copy-on-write, file systems, recovery, taint analysis, transactional file system

Also published in:

April 2008 **SIGOPS Operating Systems Review** Volume 42 Issue 4

19 [Dynamic analysis of Ada programs for comprehension and quality](#)




[measurement](#)

[Elaheh Safari-Sharifabadi, Constantinos Constantinides](#)

December 2008 **SI GAda '08**: Proceedings of the 2008 ACM annual international conference on SIGAda annual international conference

**Publisher:** ACM

Full text available:  Pdf (1.43 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 59, Citation Count: 0

During maintenance and particularly during corrective and perfective tasks, systems tend to exhibit a weight gain. As a result, their quality tends to degrade. Software comprehension is vital in order to assess system quality. In this paper, we aim at ...

**Keywords:** dynamic program analysis, program comprehension, quality measurement and metrics

Also published in:


December 2008 **SIGAda Ada Letters** Volume 28 Issue 3

## 20 [Responsibilities and Rewards: Specifying Design Patterns](#)

[Neelam Soundarajan](#), [Jason O. Hallstrom](#)

May **ICSE '04**: Proceedings of the 26th International Conference on Software Engineering

**Publisher:** IEEE Computer Society

Full text available:  Pdf (181.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 51, Citation Count: 10

Design patterns provide guidance to system designers on how to structure individual classes or groups of classes, as well as constraints on the interactions among these classes, to enable them to implement flexible and reliable systems. Patterns are usually ...

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